



RAW SEQUENCE LISTING

DATE: 02/06/2002

PATENT APPLICATION: US/09/654,323A

TIME: 11:59:22

Input Set : A:\ES.txt

Output Set: N:\CRF3\02062002\I654323A.raw

ENTERED

```

4 <110> APPLICANT: Hayden, Michael R.
5     Pimstone, Simon
6     Brooks-Wilson, Angela R.
7     Clee, Susanne M.
9 <120> TITLE OF INVENTION: Compositions and Methods for Modulating
10    HDL Cholesterol and Triglyceride Levels
13 <130> FILE REFERENCE: 760050-34
15 <140> CURRENT APPLICATION NUMBER: US/09/654,323A
16 <141> CURRENT FILING DATE: 2000-09-01
18 <150> PRIOR APPLICATION NUMBER: US 60/124,702
19 <151> PRIOR FILING DATE: 1999-03-15
21 <150> PRIOR APPLICATION NUMBER: US 60/138,048
22 <151> PRIOR FILING DATE: 1999-06-08
24 <150> PRIOR APPLICATION NUMBER: US 60/139,600
25 <151> PRIOR FILING DATE: 1999-06-17
27 <150> PRIOR APPLICATION NUMBER: US 60/151,977
28 <151> PRIOR FILING DATE: 1999-09-01
30 <150> PRIOR APPLICATION NUMBER: US 09/526,193
31 <151> PRIOR FILING DATE: 2000-03-15
33 <150> PRIOR APPLICATION NUMBER: US 60/213,958
34 <151> PRIOR FILING DATE: 2000-06-23
36 <160> NUMBER OF SEQ ID NOS: 256
38 <170> SOFTWARE: Word for Windows Version 6.0 (ASCII Text)
40 <210> SEQ ID NO: 1
41 <211> LENGTH: 183999
42 <212> TYPE: DNA
43 <213> ORGANISM: homo sapien
45 <220> FEATURE:
46 <221> NAME/KEY: misc_feature
47 <222> LOCATION: (1)...(183999)
48 <223> OTHER INFORMATION: n = a, t, g, c or none; k = g or t; y = c or t; m = a or c; s
= c or g;
49     h = a, c or t; b = c, g or t; r = a or g
51 <400> SEQUENCE: 1
52 gtctataatg gcatgccaca gggctctaaa actttgcagt tttatcatta actcaaatga 60
53 aatgtataca tgccgctgac tcaacatttt gagagacaac aaatacaatg aatatcaaga 120
54 tacatatata tataatatgt atttcttttt gagatggagt ttactgttg ttgtccaggc 180
55 tggagtacaa tagcacgata ttggctcact gcaacctctg cctcccagggt tcaagcaatt 240
56 gtcctgcctc agcctcccaa gtagctagga ttacaggcat gtgccaccac acctggctaa 300
57 ttttgtattt ttttaagtaga gatgggggtt caccatgttg gtcaggcttg tctcgaactc 360
58 ctgacctcag gtgattccac tgcctcagca tctcaaagtg ctgggattac aggtgtgagc 420
59 caccaccacc ggccatatat atatattttt gagatggagt cttactctgt caccaggct 480
60 ggagtgcaat ggcttgatct cggctcattg caacctctgc ctcccatgtt cagatgattc 540
61 tcctgcctca gcctctcaag aagctgggat tacagggtgca tgccaccatg cccaactaat 600

```

RAW SEQUENCE LISTING

DATE: 02/06/2002

PATENT APPLICATION: US/09/654,323A

TIME: 11:59:22

Input Set : A:\ES.txt

Output Set: N:\CRF3\02062002\I654323A.raw

```

62 ttttatattt catcatgggg tttcaccatg ttggccaggg tgggtgtcgaa ctctgacct 660
63 caagtgatct gctgccttc ggccctccaa agtgctggga ttaccggcat gaaccaatac 720
64 gcttggcaat atttttttaa gaaaaaaaaa tttcagggtg caacagcatc caaaaagtaa 780
65 ccaatgattt taggtgaagg gtgaagacaa atgtaaactc tttttttttt ttttgaaatg 840
66 gcgctcttgct ctgtcgcccta ggctggagtg cattggtgca attgcgactc actgcaacct 900
67 ccacctcctg gactcaaacy attctcctgc ctccagctcc cgagtagctg ggattatagg 960
68 ctgcgcgcgc cagcggccgc taatttttgt gtttttagta gagaagggtt ttcaccatgt 1020
69 tggccaggct ggtctcaaac tcttgacttc aagtgatccg cctgccttgg cctcccaaag 1080
70 tgctgggatt acaggcttga gccacccggt gaaatgtaaa ttgttaaacc tgtgtttttg 1140
71 aaaatgcata agtataggat aaggggagaat tgactttctg aagaccagaa catttttagt 1200
72 aatttcaaac acaatgtgag tcaattgtat aaaacagggt ccttatectg atgaggataa 1260
73 gaatagtatc cttgtcagat ggaaatgccc attcagctgt actttctagt ggttacgccc 1320
74 atagtagcac tgttgatgga accagggtatc tgacttttagg aaagatgttc cccaactgga 1380
75 gctgacccag aggagcctga ccaacttggg gaaagtttaa agatctcatc acgtggagaa 1440
76 taggggaagg caccaacacg tattgagtgt ctacttttag ctttaaggag aaggagaaaa 1500
77 ggcagggaat aaacggagga tgaataaga ataggtaatc ttccttaggt tttaataata 1560
78 agtgcttgcc ataggaagga gcccagaac acagttatca ataatagaga ctcacacaga 1620
79 gcattctaca ctagagctgc tgtcctcttg accagaataa gggtaagggt tgtgtgcgtg 1680
80 tccaggaaag taggcagcta ggaggtgac agagcataca ctactgccgc cacaattcta 1740
81 agtgctctcc cctaggggaa tctattttct tctcaggcac atttgtttat tcattccatg 1800
82 ttcactcttg ttatttactt cttgccaggc tttgtgttaa gaattgggga aacaagggtt 1860
83 aataaaccca gtctgtaaag aaaaggagct cacagtctgg aggggcaaat gggcattgtg 1920
84 cctgcaagtt ggcccaactg gagcctaaga agtgaagtta tgaatccagg attactcagt 1980
85 tatcaatgaa gtgattaaac atcatecata cagaccttca gagctggagg gaattttgga 2040
86 tacctactca gcacatagtt ttcaaacagt gccttgtgga accctagggc atttcttagg 2100
87 gattgctgtg tgtgagagag gagattgaat cagaagggtg ctgggaccat tctctactca 2160
88 cacttcaagc agagcagctc cacttctatc tgtattatta tttttattat ttattttatt 2220
89 tattttattt gagacggagt ctgcgcctgt cgcccagggt ggagtgaggt ggcacgatct 2280
90 cagctcactg caacctctgc ctcccgggtt caagagattc tctgcctca gcctcctgag 2340
91 tagctggaat tataggccta tgccaccacg ccagctaat ttttgtattt ttagtagaga 2400
92 cggggtttca ccatgttggg caggctgggc tgaactcct gaccttgtga tccaccggcc 2460
93 ttcgcctccc aaagtgtggt gattacaggc attagccacc atgccccgcc tatctgtatt 2520
94 atttattcat tattgtctat tgaatgaacc tgaagaatgc ttactgttac tgctaagta 2580
95 ttaaccacac cccatgccca tgcaggatga tagtgaatag tggccaaaag atactataat 2640
96 tagactcatg taattaagga atatttttgt cttgtacctt ttatgtgcct ataaagacta 2700
97 tgaatcttat ttattcagtg atttattgga ataccaaata agcaaagatc ctatgtgcta 2760
98 aagattctaa tattgtgcta agattttcct tcagatgttt ggctttctca aattccctga 2820
99 gggctagaac tttgcctac tcatttgtgt ttcccaagtg tctaacgcag tgccctgacac 2880
100 atacaggatc tccaaacgct tgctgaatgt gtgaggaagg aattaaaata atgtaccgcc 2940
101 gggcaaagtg gctcatgctt ataateccag cactttgaga gaccgaggtg ggcagatcac 3000
102 ttgaggtcag gagctcgagc ccagcctggc caacatggtg aaacccgctc tctactaaga 3060
103 atacaaaaat tagcgcgcag ttgtggcagg cgctgtaat ccagctact cggaaggctg 3120
104 aagtgggaga atcacttgaa cctgggaagc agaggtcgta gtgagccgag atcagaccgc 3180
105 tgagctccag cctgggtgac agagcaagac tccatctcga aaaataaaaag taaaataaaa 3240
106 taatgtacta actggaccca gaacagattt tccaattgat tattgacaac aaaggaatct 3300
107 gaattattta ataagggtga taagtacata ttcatatata tatgtatatg tgtgtgtatt 3360
108 tacattttta taaaagtgtt aaagtatata tacttttttt ctttcttca ggtagaaacc 3420
109 tctcctagat tgtcactgaa taaacattag cactaactat ggcaatcaaa tcacatattg 3480
110 attggtgtca gagaagaatt gaacattcaa ctctgaagca gtgttatttc ttccatctgc 3540

```

RAW SEQUENCE LISTING

DATE: 02/06/2002

PATENT APPLICATION: US/09/654,323A

TIME: 11:59:22

Input Set : A:\ES.txt

Output Set: N:\CRF3\02062002\I654323A.raw

111 aaacactctg tcccccatcc htctcttctg tctcctggaa tccaagtcac aaataatgat 3600
 112 aggtatttct gtcaaaggta ttctctcagag gactgatatg taactccctt tctcttgata 3660
 113 cactgactca ctaagcagct acccttctga attccaatta gcaatacttc ttgctatgtc 3720
 114 tgggtccaact ttcagacaaa cctagtgttc aggtatccta tagccattta taggtgtaga 3780
 115 cagggaagcat tcagatatcc ccagaggtag ctgataacca gctgatccat gactgtctgt 3840
 116 **cttgggcttg gccagcttga aatcttgaca ttgtggttct cccccagaga aggtgccttt 3900**
 117 tggatgtgag ataaagacat tatgactaga tagtgcatgg tgagggtgtt ttctctagttt 3960
 118 **taccgaagtg ttgatctgta aagctgctac cagcacacac nnanncacac acacacacac 4020**
 119 acacacacac acaattaacc acagatatcc tcatgggaaa ttgtcttagg aaagaatgga 4080
 120 agccaagatt ttatatatag accacagaag gtgatgggta atgttcttgg aaggaggttg 4140
 121 acaggcaata gctataagtt aactcaggaa agcaaagaaa atcccccagg agctaaggga 4200
 122 gaggttagag attctgcttt ttatttagcaa ttcatagtct tcaagtttca tacagtcttt 4260
 123 aaggctcccc tcttcatata gaataaatga aattatttta taaattgttc ctacagattcg 4320
 124 tatctgtaca ttctgggacc acgagttgta gcaggatgtg attttccctca ttctgggcat 4380
 125 ctaagttcta cagttaagga cactgaaaca aacctttagt cgaataaaga ttggcacatt 4440
 126 gtttcttctc ccataaacat tgaatgggtc aggaagggcc aggtgtgggtg gctcacacct 4500
 127 gtaatccag cactttggga ggccaaggca ggtagatcac ccgaggtcag gaggttcaaga 4560
 128 ccagcctggc caagatgggt aaacctgtc tctactaaaa atacaaaaag gaggagtgtg 4620
 129 agtcccagct ttgcatgaa tgtccacatt gggactttat cttaaattgt caagacacaa 4680
 130 ctcttggcca ggcgtgggtga accgagattg tgccactgca ctccagccag agaattgcact 4740
 131 ccagcctgag caacagagcc agactccttc tcagaaaaaa aaaaaaaaaa aaaaagacaa 4800
 132 ctcttaaat ggtgttctac tgtccttgaa ccaccatacc ttgacagaag tcattctaga 4860
 133 tcatcaatct gaccataaaa cacagtttgc caaactggca actaactgca cctatttctg 4920
 134 attagtttgg aagaaacttg aaagtgcctt ttttaactgt ccacttattc cctgcctggg 4980
 135 cacggaattc tctccacgc ttaataacgg acacttttaa aaattatttt tactccccac 5040
 136 agagttggca gattgctgtt tcagagagtt aaatggaatg cctccagtgg aagtatcccg 5100
 137 ttttctagaa tggaaagtct atcttcacag tgcataatc caggtgccct gggctgagac 5160
 138 ttccccgcc taggcggtac cctgggtagc acagctgaac tggctgtgaa ctaaacattc 5220
 139 attttttatt agcagccagg ctggacagag atcacacaag accaacctga caacagcagc 5280
 140 atgctgctct gcttcagaag taattttttt tttttttgag acaagagcct tgctctatca 5340
 141 ccagggcaaa gtgcagtggc atgatctcgg ctactgcaa cctccacctt ctgggatcaa 5400
 142 gcgattctcc tgcctcagcc tcccaagtag ctgggattac aggcgcagtc caccatgcct 5460
 143 ggctaatttt ttgkactttt gtattttttt tttttttgag atggagtctt cgctctgtcg 5520
 144 cccgggctgg agtggcctga gccaccgcc ctggcccttc agaagtaatt ttaaggaag 5580
 145 gatcttgttc tgggtggggg gttgggcaag gctgtgaaaa gcaaacaaaa atcacatgtg 5640
 146 gcctaatagg aggcagtggt aaatacacat gatgaaaaag aaacttacaa aagcacatta 5700
 147 ttaattttctg aacatgctaa taccatccaa taacaataag atctaattt tattgaatgc 5760
 148 tgattactca tcagctacat tccaagtact tctacatgta cagttatgtg acacataaga 5820
 149 tgtttagggt accactgaca gaatgtatga tggtagcccc ataagattac aaaaattcct 5880
 150 attgcctagt gacatatgta gcaagatgca ttactcacgt gtaataagta atgtgatgct 5940
 151 gctgtaaaaa aacctactgt gctgccatgc ctatagaagt ctaggacggg ctgggcacag 6000
 152 tggctcatgc ctgtaatccc agtacgggtg gaggccaagg caggccgatt gcttgagccc 6060
 153 agaagttcaa gaccagccgg ggcaacatag tgagagcctg tctctacaaa aaatacaaga 6120
 154 acaaatttagc caggcatggt ggcgcatgcc tttgggtccca gctactcagg aggtgaggc 6180
 155 aggaggatca cttaagccca ggaggttgag tctgcagtga gccatgatgg tgccactgca 6240
 156 ctccaacctg gagagagagt gagaccgggt tttaaaaaaa aaaaaaagcc taacaaataa 6300
 157 aagtatgtat agtacagaat acttggtaat gataaacagt atgttactgg tttatgtgtt 6360
 158 tactatactt tttatttttt agagtatact cctacttatt taaaaagaaa aaagaaagtt 6420
 159 aactgtaaaa caggcttaga caggctcttc aggaggtatt ccagaagaaa ggcattgtta 6480

RAW SEQUENCE LISTING

DATE: 02/06/2002

PATENT APPLICATION: US/09/654,323A

TIME: 11:59:22

Input Set : A:\ES.txt

Output Set: N:\CRF3\02062002\I654323A.raw

160 tcacaggaga tgaaagctcc atgcatgtta ctgcccttga agaccttcca gtgggacaag 6540
 161 atgtgaggtg gaagtctatg atagtgatga tcctgacctt gtgtaggcct aggctaatat 6600
 162 gtgtgttttt aacatattag tttttaacaa caaagttaa tcagttaaaa caattttttt 6660
 163 **aatagaaaaa agctcataga ataaggatat naaagaaang acaatgtttt gtttgtttgt 6720**
 164 **ttgtttgttt tttagacag agtctcgctn ccatcacctg ggctggagtg cagtggcaca 6780**
 165 atcttggtct agtgcaacct ctgattccca ggttcaagta attctcatgc ctcaacctcc 6840
 166 caagtagctg ggattacagg cgcccatcac cacacccaac taacttttgt ctttttagta 6900
 167 gagatggggt ttcatcatat tggccaggct tgtcttgaa tcctgacctc aggtgatcca 6960
 168 cctcctcgg cctcccaaag tgctgggatt acggttgtaa gccatcgtgc ccggccagaa 7020
 169 agaaaatgtt tgtacagtat gtacgatgta tttgttttaa gctaagtgtt attatgaatg 7080
 170 aatcatgtgt ggtgtagtgg ctcatgcccg taatcgcac actttgggag accgaggacg 7140
 171 gaggatagct tgagtccaga gttctagacc agcctgaaca acgtggtgag acctcgtctc 7200
 172 tacgaaaatc atcaaaaatt atccatgcgt gggggtacat acctatagtc ctagctactc 7260
 173 aggagactga ggtgagggga ttgcttgaa tcagaagtt gaagctgcag tgagctataa 7320
 174 ttgtaccact gcatttcggc ctagggtgacc ccgcctcaaa gaataataat aaaagctggg 7380
 175 cacggtggct cagcctgta atcccagcac tttgggaggc caaggcgggc ggatcacttg 7440
 176 aggtcaggag tttgagacca gcctggctga catggtgaga ccccgctcgt actaaataca 7500
 177 aaaaattagc cgtcgtggt ggtgtgtgcc tgtaatccca gctactcagg aagctgaggt 7560
 178 gggagaattg cttgaacctg ggaggcagag gttgcagtga gccgagatag cgccactgca 7620
 179 ctccagcctg agcaaaaaac aataataaat aaataagttt gaaaatttaa aatgtttata 7680
 180 aaattaaaaa gttacagtga gctaagattt agtattaaag aattttttta taaacatgta 7740
 181 gtgtaactct acagtgttaa taaactctac agtagtgtac agtgacatcc taggccttca 7800
 182 cattcactca tcaactactg actcaccag agcaacttcc agtcctgaaa gctccattca 7860
 183 tggttaagtt cctatacagg cgtgccattt aaaaaatctt ttaggccagg cgcggcggct 7920
 184 **cacgntgtta atcccagcac tttgggaggc tgaggcaggc ggatcacgag ctcaggagat 7980**
 185 cgagaccatc ctggctaaca cggtgaaacc ccgtctctac taaaaataca aaagattagc 8040
 186 tgggtgtggt ggtgggcgcc tgtagtccca gctactcggg aggtgaggc aggagaatgg 8100
 187 catgaacca ggaggcggag cttgacagtg agctgagatc acaccactgc gctccagcct 8160
 188 gggccacaga gcaagactcc atctcaaaaa aaaaaaaat cttttatact atattcttaa 8220
 189 tgtacctttt ctatgtttag atacacaaat accactgtat tacaattgcc tactgtattc 8280
 190 agtacagtaa catgctatat gggtacgtag cctaggaaca ataggctata ttgttcctag 8340
 191 gtatagggat gtggtatcct ataccatcta ggtttgtgta agtttatttt atgatgtttg 8400
 192 catgacgaca gagtaccta aggactcatt tcttagaata tattttagt taagcaatgc 8460
 193 atgactctat tgactcatga attcttacca cagacctatg gggcagtact attgttacct 8520
 194 tcattttata aatgataaaa ctgagggtaca gagacagtaa ataacttgac cacggtcatt 8580
 195 cagctactca agagtcaagg ctgggattta aaaccagatc acatggtttc agagtgttca 8640
 196 cacttaccta ctatactgtc tcaagagcaa ggatgttttg gttcacttga caaatgaaga 8700
 197 tagggacctc ttctattata agcctatttt aggtataaat agaagggaag gggacacagt 8760
 198 gaatccaggc cttctggcat ggctcctcag ccctttctga gctggcctgg gacagccttc 8820
 199 ctacctact gatgccactt cctactgagc gactttcctg cctacctcac tgatgccact 8880
 200 tcctactgag cgaactttcct gggctccaga ccagtaagc gactttgcct gcacccacct 8940
 201 tattttgctc tactccctgt gcttttatgc ctttaccat ctgccctgga aagctcttct 9000
 202 aacctttgaa tgggtaaagg cataaatgta tgctggagaa atcctcagct caggggccagg 9060
 203 cacgctggct cagcctgta atcccagcac tttgggaggc cgagggtggg agatcacctg 9120
 204 aggtcgggag ttggagacca gcctgaccaa catggagaaa cccctgtctc tactaaaaat 9180
 205 acaaaattag ctgggcgtga tggcacatgc ctgtaatccc acagctactc gggaggctga 9240
 206 ggcaggagaa ttgcttgaa ctgggaggcg gagggtgcag tgagccaaga ttgcgcctct 9300
 207 gcactccagc ctgggcgaca gagctagact ctgcctcaaa aaaaaaaac aaaaaaaga 9360
 208 aaaaaagaa aaaaaagaa tcctcagctg agttgtcaac tcctcttga aactttctca 9420

RAW SEQUENCE LISTING

DATE: 02/06/2002

PATENT APPLICATION: US/09/654,323A

TIME: 11:59:23

Input Set : A:\ES.txt

Output Set: N:\CRF3\02062002\I654323A.raw

209 gacctttcag gctgagtcgt cgtcatttg tgccttcctca gttcctggct tctaccttct 9480
 210 tcatagcttg tttcatgtaa tgttaattct taacttgcttt ctccctcttc taagctgaga 9540
 211 gctacttcaa agcatgggta ggacctagca cgggtgatgg gacatgggtg gtaccccgta 9600
 212 aatgtttact gaaaaaaaaa tgctaaagc aattgttaac atcatcagat agataattat 9660
 213 gggcattcag agattctgtc ttcaagctta tataaagaac ttatttttgg ctctaattat 9720
 214 cctgataatt ttctcattac ttacatttat tgtggcttgt ggatcaattg ttgacatttt 9780
 215 ataaacattt cactatttga caatgatgat actaaaatac gaattaagca accattctaa 9840
 216 agatagtgat gatgataaca tatacgtctg taacatcttt attttcagcc gtatcatgga 9900
 217 atcctctgtt tccattctgc taggtaggca ggtatgcagg tagaacttgt gagaggatat 9960
 218 gatttttgtt tccatcttag atatgacagg aacttggaat ttttgacata aatgacgaac 10020
 219 atccgggatt cttaaacaat ctttaaaaaat ggaatgcctt aaaagctggg cgcagtggct 10080
 220 cacgcttata atcccagcac tttgggaggg tgaggcaaat ggatcacttg agttcaggag 10140
 221 ttcaagacca gcttgcccaa catggtgaaa ccccatctct actacaaata caaatattag 10200
 222 ccgggcgtag tggcagggcg ctgtaatccc agctacttgg gagcctgagg caggggaatt 10260
 223 gcttgaaccc aggaggcctt ggagattgca gtgagctgag actgcgccat tgcactccag 10320
 224 cctgggcaac aagagtgaac ctccatctcc ggaaaaaaaa aaaaaaaaaa aaggaatgcc 10380
 225 tttgggaata atttatttat aatttatgta taacatatag acaaaccatt agtttgtctt 10440
 226 atattttact aaatataaat ttagtaaata taaatattta ctaaatataa aaactcttag 10500
 227 attttactaa agagttacaa ctaattggcc tggcgtgggt gctcacacct gtaatcccag 10560
 228 cactttagga ggcagagggt ggcgcagcac gaggtcagga gatcaagacc atcctggcta 10620
 229 acacggtgaa actctgtctc tactaaaaaa aaaaaatac aaaaaattag ccgggcgtgg 10680
 230 tggcaggccc ctgtagtccc agctactcag gaggtcagg caggagaatg gcgtgaacta 10740
 231 agcagaggct tccctaaaag tgatcttcag gataaaggca gaggaagagg ctccatgact 10800
 232 gggattgggt ttgaggagag ccagagaagc aagctacaga aaagagaaaa aattaatatg 10860
 233 caagagagta aacaacacga aggaaaagaa cccagtgtgg aaacactaca cgtgagaaag 10920
 234 gtgtctgtaa ggatgttcta caaagcaaat gcttgatat taattcattg cagcaggaga 10980
 235 tggtaagcct catgataaag aaggagaaaa aatcaagtca agggctctga ggtactgacc 11040
 236 caggtatact tgactatgcc agcaactgtt tagggggaga tttgagctac acttgtagca 11100
 237 aaggcaaaat ctgtaattag ttgtaactct tttttttttt gagatgggtg ctgcctctgt 11160
 238 ccccagggt ggagtgcagt ggtgtgatct tggctcactg caagctccgc ctccctgggt 11220
 239 caagtgttc tccagcctca gcctcccaag taattgggac tacaggcatg caccaccatg 11280
 240 ccagctaat ttttgaactt ttattacaga ccatgttttg ccatgttcac caagctggtc 11340
 241 **tcaagctcct gacctcaagt gatccgtccg cctcgccent cccaaagcgc tgagattata 11400**
 242 ggctgaacc accgcgcctg gcctaaagag atctaattct tagcaaagtt tcaccaggga 11460
 243 gtctctctc acccccaccc catccttccc acaaagaatt agaacaatgt cctactacc 11520
 244 cctgctgtat ctctgacttt ttactttaaa tctcagcaga atattttact aaatgttttg 11580
 245 atgtggttat ataaaatcat ccctgctgac aaggaaacac tttttgaaaa aagttttcat 11640
 246 tatcaaacag taagtacagc tgactgccgt gacctttaac ccatttctga gtctccctc 11700
 247 attggacttg ggtggagggg actggtacca ataaagtcaa atgcttaata atttatgcaa 11760
 248 gtgcttgaag aaatttgaag ttgaatatct ctatcatctt gaaatggaga aagaatctgt 11820
 249 aaacagcaaa gccagacgcc ctaaaggaaa agatttacag attaaaataa gattgcaatc 11880
 250 tggtaaaaa atttgcaaca catgtaacag tcagaaagtt gaaacacttg gtttaacawg 11940
 251 agcttttawc agataaataa ggaaagaata aacattggat tttaaacacc gataaacatg 12000
 252 aaaagatgtt taatctttat ttttatttaa tccatattat ttttcagttt aatcaaagaa 12060
 253 aatataaatc aaaacaataa tacattttat atatatatat atatatatat atatatatat 12120
 254 atatatatag taggcataag ttaaagactg ataagactgt tgaaaaggga tgaaaaacta 12180
 255 ggcttactca taccaatata tatctattag gatggctaaa gtaaaaata ctgaaaatat 12240
 256 **caagtgtcga aaaggatatg gagcaattgg aaccctcaga catcgctgrt ngagaaaaaca 12300**
 257 aaatggtaca gccaccctgg agaacagttt agctgtttct tgtaaagtta aacatgcgct 12360

VERIFICATION SUMMARY

DATE: 02/06/2002

PATENT APPLICATION: US/09/654,323A

TIME: 11:59:24

Input Set : A:\ES.txt

Output Set: N:\CRF3\02062002\I654323A.raw

L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:642 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:687 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:765 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:767 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:803 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:933 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

VERIFICATION SUMMARY

DATE: 02/06/2002

PATENT APPLICATION: US/09/654,323A

TIME: 11:59:24

Input Set : A:\ES.txt

Output Set: N:\CRF3\02062002\I654323A.raw

L:952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:3887 M:283 W: Missing Blank Line separator, <400> field identifier
L:4103 M:283 W: Missing Blank Line separator, <400> field identifier
L:4373 M:283 W: Missing Blank Line separator, <400> field identifier
L:4643 M:283 W: Missing Blank Line separator, <400> field identifier
L:5237 M:283 W: Missing Blank Line separator, <400> field identifier